

2022 3rd International Conference on Innovations in Computer Science & Software Engineering (ICONICS 2022)

**Karachi, Pakistan
14-15 December 2022**



**IEEE Catalog Number: CFP22CU6-POD
ISBN: 978-1-6654-6142-9**

**Copyright © 2022 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP22CU6-POD
ISBN (Print-On-Demand):	978-1-6654-6142-9
ISBN (Online):	978-1-6654-6141-2

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Experimentation for Decentralized Resource-Based Multi-Pool Mining in Ethereum Blockchain	1
<i>Muhammad Rehman, Emanuel Figetakis, Yahuza Bello, Charlie Obimbo</i>	
Performance Enhancement in Agriculture Sector Based on Image Processing	10
<i>Ali Hassan, Faisal Rehman, Muhammad Shahbaz Ashraf, Ahmed Ashfaq, Hanan Sharif, Rana Zeeshan, Salman Akram, Hira Akram</i>	
A Comparative Analysis of 5G Network Slicing Simulators.....	16
<i>Muhammad Najmul Islam Farooqui, Muhammad Mubashir Khan, Faiza Farooq, Junaid Arshad</i>	
Blockchain-Based Privacy Preservation Framework for IoT-Based Information Systems	24
<i>Muhammad Ali, Sehrish Munawar Cheema, Nasir Ayub, Ammerha Naz, Zaheer Aslam</i>	
Frameworks, Applications and Challenges in Streaming Big Data Analytics: A Review	31
<i>Syed Muhammad Nabeel Mustafa, Muhammad Umer Farooque, Muhammad Tahir, Shariq Mahmood Khan, Rohail Qamar</i>	
Prevention and Safety Strategies for Road Accidents by Using Evolutionary Algorithms.....	37
<i>Aroosa Manzoor, Mudassar Ahmad, Hamid Ali, Muhammad Asif Habib, Kainat Rizwan</i>	
Intrusion Detection Using Deep Learning Techniques	45
<i>Syeda Fareeha Batool, Faisal Rehman, Hanan Sharif, Maheen Jaffer, Anza Gul, Sameen Butt</i>	
Analyzing Applicant's Pre-Admission Data and Predicting Applicant's Performance in Pre-Admission Test Using Data Mining Techniques.....	51
<i>Nimra Iqbal, Raheela Asif</i>	
Outlook 360 A Practical Approach of Recruiting Talent Through Artificial Intelligence	62
<i>Sani E Zehra, Areeba Shakil, Maryam Fatima, M. Anas Munawwar, Nida Khalil</i>	
Quantum Computing and Machine Learning Algorithms - A Review.....	69
<i>Iram Manan, Faisal Rehman, Hanan Sharif, Naveed Riaz, Muhammad Atif, Muhammad Aqeel</i>	
Real-Time Violence Detection Using Deep Learning Techniques	75
<i>Gul E Fatima Kiani, Taheena Kayani</i>	
A Study on the E-Commerce Trends Using Data Analysis.....	83
<i>Joseph Terence Peter Noronha, Shariq Mahmood Khan, Stina Sebastian, Syed Muhammad Nabeel Mustafa</i>	
A Systematic Review on the Motivations of Cyber-Criminals and Their Attacking Policies.....	90
<i>Rana Mohtasham Aftab, Mariam Ijaz, Faisal Rehman, Ahmad Ashfaq, Hanan Sharif, Naveed Riaz, Shabbir Hussain, Muhammad Arslan, Hadia Maqsood</i>	
Anomaly Detection and Enterprise Security Using User and Entity Behavior Analytics (UEBA)	96
<i>Muhammad Zunair Ahmed Khan, Muhammad Mubashir Khan, Junaid Arshad</i>	
Face-To-Camera Distance Estimation Using Machine Learning	105
<i>Syed Ausaf Hussain, Waseemullah, Najeed Ahmed Khan</i>	

Analysis of Learners' Sentiments on MOOC Forums Using Natural Language Processing Techniques.....	113
<i>Hania Marfani, Saman Hina, Huma Tabassum</i>	
A Review of Recent Advances in Deep Learning for Object Detection.....	121
<i>Muhammad Fahad Safdar, Hanan Sharif, Faisal Rehman, Zahid Bilal, Saqlain Ahmad, Hadia Maqsood</i>	
Predicting Students' Behavior Towards Their Degree Using Machine Learning Techniques	127
<i>Khalid Mahboob, Raheela Asif, Syed Muhammad Nabeel Mustafa, Humaira Rana</i>	
Genetic Testing of Huntington's Disease by Facial Examination of a Mankind Using AI Programs.....	133
<i>S. Atruba Feroze, S. Faiza Nasim</i>	
Spam Consumer's Reviews Detection for E-Commerce Website Using Linguistic Approach in Deep Learning.....	142
<i>Muhammad Shahbaz Ashraf, Faisal Rehman, Hanan Sharif, Muhammad Aqeel, Muhammad Arslan, Amina Rida</i>	
Development of an Algorithm Based on the Optimization of Space, Time and Resources of the Warehouse Using Genetic Algorithms.....	149
<i>M. Mubashir Babar, Abeer Javed Syed, Shaarif Asim, Abdul Rafay Khan, M. Abdul Hai</i>	
Machine Learning Based Impostor Detection by Invariant Features from Nir Finger Vein Imaging.....	157
<i>Akhtar Rasool, Faisal Rehman, Nadeem Sarfraz, Hanan Sharif, Rashid Khan, Abdul Manan Khan</i>	
Machine Learning Approaches for Prediction of Nutrition Deficiency Among Women of Different Age Groups.....	163
<i>Javeria Ali, Waseemullah, Masood Ahmed Khan, Najeed Ahmed Khan</i>	
Efficient Energy Storage Systems Management in Power Plants with Artificial Intelligence and Price Control.....	170
<i>Nadeem Sarfraz, Faisal Rehman, Hanan Sharif, Salman Akram, Bilal Hassan Mughal, Ahmed Ashfaq</i>	
Comparison of Undergraduate Students Performance Admitted Through Two Different Admission Criterion	175
<i>Syed Rafiq Ul Hoda, Raheela Asif</i>	
A Quantitative Assessment of Emerging Trends in IoT Botnet Attacks	185
<i>Muhammad Hassan Nasir, Muhammad Mubashir Khan, Junaid Arshad</i>	
Development of an Automated Accessibility Evaluation Plugin Tool for Mobile Applications.....	193
<i>Sidrah Kashif, Mudassar Ahmad, Muhammad Shahid, Muhammad Asif Habib, Kainat Rizwan</i>	
Movie Recommendation System with Sentimental Analysis Using Cosine Similarity Technique	203
<i>Arslan Javed, Faisal Rehman, Nadeem Sarfraz, Hanan Sharif, Rashid Khan, Abdul Manan Khan</i>	

Author Index